IN THE CLAIMS

1. (currently amended) An adhesive comprising a fluorine-containing polymer and an ultraviolet-curing fluorine-containing monomer, wherein the ultraviolet-curing fluorine-containing monomer is at least one kind of monomer selected from the group consisting of general formulas (1), (2) and (3):

$$C H_2 = C - C O_2 - (C R^2 H)_1 - R f$$
 ...(1)

 $R^1$ 

$$C H_2 = C - C O_2 - (C R^2 H)_m - R f - (C R^3 H)_n - C O_2 - C = C H_2$$
 $I$ 
 $R^4$ 
...(2)

wherein  $R^1$  and  $R^4$  each independently representing hydrogen or a methyl group,  $R^2$  and  $R^3$  each independently representing hydrogen or a hydroxyl group, Rf is a fluorine-containing group, and 1, m and n each are an integer of 1 to 8, and the fluorine-containing polymer is a copolymer comprising structural units represented by the following formulas (4), (5), and (6):

 $-C_2F_4$  ... (4)

$$\begin{array}{cccc}
-C_3H_6-&\ldots(5) \\
-C_2H_2F_2-&\ldots(6)
\end{array}$$

## 2-3. (cancelled)

4. (currently amended) A pellicle comprising a pellicle film and a pellicle frame for supporting the pellicle film, wherein

the pellicle film is adhered to the pellicle frame through an adhesive layer comprising a fluorine-containing polymer and a substance resulting from curing of an ultraviolet-curing fluorine-containing monomer, wherein the ultraviolet-curing fluorine-containing monomer is at least one kind of monomer selected from the group consisting of general formulas (1), (2) and (3):

$$C H_2 = C - C O_2 - (C R^2 H)_1 - R f$$
 ...(1)

$$C H_2 = C - C O_2 - (C R^2 H)_m - R f - (C R^3 H)_n - C O_2 - C = C H_2$$
 $I$ 
 $R^4$ 

...(2)

wherein R<sup>1</sup> and R<sup>4</sup> each independently representing hydrogen or a methyl group, R<sup>2</sup> and R<sup>3</sup> each independently representing hydrogen or a hydroxyl group, Rf is a fluorine-containing group, and l, m and n each are an integer of 1 to 8, and the fluorine-containing polymer is a copolymer comprising structural units represented by the following formulas (4), (5), and (6):

 $-C_2F_4-\ldots(4)$ 

 $-C_3H_6-...(5)$ 

 $-C_2H_2F_2-\ldots(6)$ .

5. (currently amended) A method for producing method of a pellicle including a pellicle film and a pellicle frame for supporting the pellicle film, comprising a step of adhering the pellicle film to the pellicle frame through an adhesive comprising a fluorine-containing polymer and an ultraviolet-curing fluorine-containing monomer, wherein the ultraviolet-curing fluorine-containing monomer is at least one kind of monomer selected from the group consisting of general formulas (1),

$$C H_2 = C - C O_2 - (C R^2 H)_1 - R f$$
 ...(1)

 $R^1$ 

$$C H_2 = C - C O_2 - (C R^2 H)_m - R f - (C R^3 H)_n - C O_2 - C = C H_2$$
 $I$ 
 $R^4$ 

...(2)

wherein  $R^1$  and  $R^4$  each independently representing hydrogen or a methyl group,  $R^2$  and  $R^3$  each independently representing hydrogen or a hydroxyl group, Rf is a fluorine-containing group, and 1, m and n each are an integer of 1 to 8, and the fluorine-containing polymer is a copolymer comprising structural units represented by the following formulas (4), (5), and (6):

 $-C_2F_4-$  ... (4)

 $-C_3H_6-$  ...(5)

 $\underline{-C_2}\underline{H_2}\underline{F_2}\underline{-\ldots(6)}.$ 

6. (new) The adhesive as recited in claim 1, wherein the fluorine-containing polymer is a copolymer comprising structural units represented by formula (7):

$$-(C_2F_4)_a-(C_3H_6)_b-(C_2H_2F_2)_c-\dots(7)$$

wherein each of a, b and c is a positive integer.

7. (new) The pellicle as recited in claim 4, wherein the fluorine-containing polymer is a copolymer comprising structural units represented by formula (7):

$$-(C_2F_4)_a-(C_3H_6)_b-(C_2H_2F_2)_c-\dots(7)$$

wherein each of a, b and c is a positive integer.

8. (new) The method as recited in claim 5, wherein the fluorine-containing polymer is a copolymer comprising structural units represented by formula (7):

$$-(C_2F_4)_a-(C_3H_6)_b-(C_2H_2F_2)_c-\dots(7)$$

wherein each of a, b and c is a positive integer.

9. (new) The adhesive as recited in claim 1, wherein the fluorine-containing polymer and the between the ultraviolet-curing fluorine-containing monomer contained in the adhesive is fluorine-containing polymer : ultraviolet-curing fluorine-containing monomer = 1 : 0.25 to 0.5 (weight ratio) in monoacrylate fluorine-containing the case of represented by general formula (2); and fluorine-containing polymer : ultraviolet-curing fluorine-containing monomer = 1 : 0.25 to 3 (weight ratio) in the case of diacrylate fluorinecontaining monomer represented by general formula (3) or (4).

- 10. (new) The pellicle as recited in claim 4, wherein the ratio between the fluorine-containing polymer and the ultraviolet-curing fluorine-containing monomer contained in the adhesive layer is fluorine-containing polymer: ultraviolet-curing fluorine-containing monomer = 1: 0.25 to 0.5 (weight ratio) in the case of monoacrylate fluorine-containing monomer represented by general formula (2); and fluorine-containing polymer: ultraviolet-curing fluorine-containing monomer = 1: 0.25 to 3 (weight ratio) in the case of diacrylate fluorine-containing monomer represented by general formula (3) or (4).
- 11. (new) The method as recited in claim 5, wherein the the fluorine-containing polymer and the ratio between ultraviolet-curing fluorine-containing monomer contained in the adhesive is fluorine-containing polymer : ultraviolet-curing fluorine-containing monomer = 1 : 0.25 to 0.5 (weight ratio) in the monoacrylate fluorine-containing case of represented by general formula (2); and fluorine-containing polymer : ultraviolet-curing fluorine-containing monomer = 1 : 0.25 to 3 (weight ratio) in the case of diacrylate fluorinecontaining monomer represented by general formula (3) or (4).

12. (new) The adhesive as recited in claim 1, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (1) is at least one selected from the group consisting of:

$$C H_2 = C H - C O_2 - C H_2 - C H - C H_2 (C F_2)_3 C F_3$$

$$I$$

$$O H$$

$$C H_2 = C - C O_2 - C H_2 - C H_2 (C F_2)_7 C F_3$$

$$C H_3$$

$$C H_2 = C - C O_2 - C H_2 - C H_2 (C F_2)_3 C F_3$$

$$C H_3$$

$$C F_{1}$$
 $C H_{2} = C - C O_{2} - C H_{2} - C H - C H_{2} (C F_{2})_{2}$ 
 $C H_{3}$ 
 $C H_{3}$ 
 $C H_{3}$ 
 $C H_{3}$ 
 $C H_{3}$ 

$$C F_3$$

$$C H_2 = C - C O_2 - C H$$

$$C H_3$$

$$C F_3$$

$$C H_2 = C - C O_2 - C H_2 - (C F_2)_3 C F_2 H$$

$$C H_3$$

 $CH_2 = CH - CO_2 - CH_2 - CH_2 - (CF_2)_9 CF_3$ 

$$C F_1$$
 $C H_2 = C H - C O_2 - C H_2 - C H_2 (C F_2)_8 C F$ 
 $C F_3$ 

 $CH_2=CH-CO_2-CH_2$  ( $CF_2$ ) <sub>4</sub> $CH_2OH$ 

$$C H_2 = C H - C O_2 - C H_2 - C F - O (C F_2)_4 C F_3$$

$$I$$

$$C F_3$$

 $CH_2 = CH - CO_2 - (CH_2)_6 - (CF_2)_5 CF_3$ 

$$C H_2 = C H - C O_2 - C H_2 - C F - O - C F_2 - C F - O - (C F_2)_4 C F_3$$

$$| \qquad \qquad | \qquad \qquad |$$

$$C F_3 \qquad \qquad C F_3$$

 $CH_2=CH-CO_2-CH_2-(CF_2)_5CF_2H$ 

 $CH_2=CH-CO_2-(CH_2)_6(CF_2)_3CF_3$  and

$$\begin{array}{c} O \ H \\ I \\ C \ H_2 = C \ H - C \ O_2 - C \ H_2 - C \ H - C \ H_2 (C \ F_2)_8 \ C \ F \end{array}$$

13. (new) The pellicle as recited in claim 4, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (1) is at least one selected from the group consisting of:

$$C H_2 = C H - C O_2 - C H_2 - C H - C H_2 (C F_2)_3 C F_3$$

$$I$$

$$O H$$

$$C H_2 = C - C O_2 - C H_2 - C H_2 (C F_2)_7 C F_3$$

$$C H_3$$

$$C H_2 = C - C O_2 - C H_2 - C H_2 (C F_2)_3 C F_3$$

$$C H_3$$

$$C F_{2}$$

$$C H_{2} = C - C O_{2} - C H_{2} - C H - C H_{2} (C F_{2})_{2}$$

$$C H_{3}$$

$$O H$$

$$C F_{3}$$

$$C F_3$$

$$C H_2 = C - C O_2 - C H$$

$$C H_3$$

$$C F_3$$

$$C H_2 = C - C O_2 - C H_2 - (C F_2)_3 C F_2 H$$

$$C H_3$$

 $CH_2 = CH - CO_2 - CH_2 - CH_2 - (CF_2)_9 CF_3$ 

$$C F_{1}$$
 $C H_{2} = C H - C O_{2} - C H_{2} - C H_{2} (C F_{2})_{8} C F$ 
 $C F_{3}$ 

 $CH_2=CH-CO_2-CH_2$  ( $CF_2$ )  $_4CH_2OH$ 

$$C H_2 = C H - C O_2 - C H_2 - C F - O (C F_2)_4 C F_3$$

$$I$$

$$C F_3$$

$$CH_2 = CH - CO_2 - (CH_2)_6 - (CF_2)_5 CF_3$$

$$C H_2 = C H - C O_2 - C H_2 - C F - O - C F_2 - C F - O - (C F_2)_4 C F_3$$

$$I$$

$$C F_3$$

$$C F_3$$

 $CH_2=CH-CO_2-CH_2-(CF_2)_5CF_2H$ 

 $CH_2=CH-CO_2-(CH_2)_6(CF_2)_3CF_3$  and

$$\begin{array}{c} O \ H \\ I \\ C \ H_2 = C \ H - C \ O_2 - C \ H_2 - C \ H - C \ H_2 (C \ F_2)_8 \ C \ F \end{array}$$

14. (new) The method as recited in claim 5, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (1) is at least one selected from the group consisting of:

$$C H_2 = C H - C O_2 - C H_2 - C H - C H_2 (C F_2)_3 C F_3$$

$$I$$

$$O H$$

$$C H_2 = C - C O_2 - C H_2 - C H_2 (C F_2)_7 C F_3$$

$$I$$

$$C H_3$$

$$C H_2 = C - C O_2 - C H_2 - C H_2 (C F_2)_3 C F_3$$

$$C H_3$$

$$C F_{3}$$
 $C H_{2} = C - C O_{2} - C H_{2} - C H - C H_{2} (C F_{2})_{2}$ 
 $C H_{3}$ 
 $C H_{3}$ 
 $C H_{3}$ 
 $C H_{4}$ 
 $C F_{5}$ 

$$C F_{3}$$
 $C H_{2} = C - C O_{2} - C H$ 
 $C H_{3}$ 
 $C F_{3}$ 

$$C H_2 = C - C O_2 - C H_2 - (C F_2)_3 C F_2 H$$

$$I$$

$$C H_3$$

 $CH_2 = CH - CO_2 - CH_2 - CH_2 - (CF_2)_9 CF_3$ 

$$C F_3$$
 $C H_2 = C H - C O_2 - C H_2 - C H_2 (C F_2)_8 C F$ 
 $C F_3$ 

 $CH_2=CH-CO_2-CH_2$  ( $CF_2$ )  $_4CH_2OH$ 

$$C H_2 = C H - C O_2 - C H_2 - C F - O (C F_2)_4 C F_3$$

$$C F_3$$

 $CH_2 = CH - CO_2 - (CH_2)_6 - (CF_2)_5 CF_3$ 

 $CH_2=CH-CO_2-CH_2-(CF_2)_5CF_2H$ 

 $CH_2=CH-CO_2-(CH_2)_6(CF_2)_3CF_3$  and

$$\begin{array}{c} & O \ H \\ & | \\ C \ H_2 = C \ H - C \ O_2 - C \ H_2 - C \ H - C \ H_2 (C \ F_2)_8 \ C \ F \end{array}$$

15. (new) The adhesive as recited in claim 1, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (2) is at least one selected from the group consisting of:

$$CH_2 = CH - CO_2 - CH_2 - (CF_2)_2 - CH_2 - CO_2 - CH = CH_2$$

$$CH_2 = CH - CO_2 - CH_2 - (CF_2)_4 - CH_2 - CO_2 - CH = CH_2$$

$$CH_2 = CH - CO_2 - CH_2 - (CF_2)_6 - CH_2 - CO_2 - CH = CH_2$$

$$CH_2 = CH - CO_2 - CH_2 - (CF_2)_8 - CH_2 - CO_2 - CH = CH_2$$

$$\label{eq:ch2} \mbox{CH$_2$=$CH$-$CO$_2$-$(CH$_2)$_n$-$(CF$_2)$_4$-$(CH$_2)$_m$-$CO$_2$-$CH$=$CH$_2$}$$
 (n and m are respectively 1 to 3)

$$\label{eq:ch2} \mbox{CH}_2 = \mbox{C} \left(\mbox{CH}_3\right) - \mbox{CO}_2 - \left(\mbox{CH}_2\right)_n - \left(\mbox{CF}_2\right)_4 - \left(\mbox{CH}_2\right)_m - \mbox{CO}_2 - \mbox{CH} = \mbox{CH}_2$$
 (n and m are respectively 1 to 3)

$$\label{eq:ch2} \text{CH}_2\text{=C}\left(\text{CH}_3\right)\text{-CO}_2\text{-}\left(\text{CH}_2\right)_n\text{-}\left(\text{CF}_2\right)_4\text{-}\left(\text{CH}_2\right)_m\text{-CO}_2\text{-C}\left(\text{CH}_3\right)\text{=CH}_2$$

(n and m are respectively 1 to 3) and

$$CH_2=CH-CO_2-CH(OH)-(CF_2)_4-(CH)_n-CO_2-CH=CH_2$$
 (n is 1 to 3).

16. (new) The pellicle as recited in claim 4, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (2) is at least one selected from the group consisting of:

$$CH_2 = CH - CO_2 - CH_2 - (CF_2)_2 - CH_2 - CO_2 - CH = CH_2$$

$$CH_2 = CH - CO_2 - CH_2 - (CF_2)_4 - CH_2 - CO_2 - CH = CH_2$$

$$CH_2 = CH - CO_2 - CH_2 - (CF_2)_6 - CH_2 - CO_2 - CH = CH_2$$

$$CH_2=CH-CO_2-CH_2-(CF_2)_8-CH_2-CO_2-CH=CH_2$$

$$\label{eq:ch2} \mbox{CH$_2$=CH-CO$_2$-(CH$_2)$_n$-(CF$_2)$_4$-(CH$_2)$_m$-CO$_2$-CH=CH$_2}$$
 (n and m are respectively 1 to 3)

$$\text{CH}_2 = \text{C} \left( \text{CH}_3 \right) - \text{CO}_2 - \left( \text{CH}_2 \right)_n - \left( \text{CF}_2 \right)_4 - \left( \text{CH}_2 \right)_m - \text{CO}_2 - \text{CH} = \text{CH}_2$$
 (n and m are respectively 1 to 3)

$$CH_2=C(CH_3)-CO_2-(CH_2)_n-(CF_2)_4-(CH_2)_m-CO_2-C(CH_3)=CH_2$$

(n and m are respectively 1 to 3) and

$$CH_2=CH-CO_2-CH(OH)-(CF_2)_4-(CH)_n-CO_2-CH=CH_2$$
 (n is 1 to 3).

17. (new) The method as recited in claim 5, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (2) is at least one selected from the group consisting of:

$$CH_2 = CH - CO_2 - CH_2 - (CF_2)_2 - CH_2 - CO_2 - CH = CH_2$$

$$CH_2 = CH - CO_2 - CH_2 - (CF_2)_4 - CH_2 - CO_2 - CH = CH_2$$

$$CH_2 = CH - CO_2 - CH_2 - (CF_2)_6 - CH_2 - CO_2 - CH = CH_2$$

$$CH_2 = CH - CO_2 - CH_2 - (CF_2)_8 - CH_2 - CO_2 - CH = CH_2$$

$$\label{eq:ch2} \text{CH}_2 = \text{CH} - \text{CO}_2 - (\text{CH}_2)_n - (\text{CF}_2)_4 - (\text{CH}_2)_m - \text{CO}_2 - \text{CH} = \text{CH}_2$$
 (n and m are respectively 1 to 3)

$$CH_2=C (CH_3) - CO_2 - (CH_2)_n - (CF_2)_4 - (CH_2)_m - CO_2 - CH = CH_2$$
(n and m are respectively 1 to 3)

$$CH_2=C(CH_3)-CO_2-(CH_2)_n-(CF_2)_4-(CH_2)_m-CO_2-C(CH_3)=CH_2$$

(n and m are respectively 1 to 3) and

$$CH_2=CH-CO_2-CH(OH)-(CF_2)_4-(CH)_n-CO_2-CH=CH_2$$
 (n is 1 to 3).

18. (new) The adhesive as recited in claim 1, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (3) is at least one selected from the group consisting of:

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_3 C F_3$$

$$I$$

$$O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_5 C F_3$$

$$| O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_7 C F_3$$

$$I$$

$$O_7 C - C H = C H_7$$

$$C H_2 = C H - C O_2 - (C H_2)_n - C H - (C H_2)_m - (C F_2)_1 C F_3$$

$$| O_2 C - C H = C H_2$$
(n and m are respectively 1 to 3)

and

$$C H_2 = C H - C O_2 - (C H_2)_n - C H - (C H_2)_m - (C F_2)_3 C F_3$$

$$| O_2 C - C (C H_3) = C H_2$$
(n and m are respectively 1 to 3)

19. (new) The pellicle as recited in claim 5, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (3) is at least one selected from the group consisting of:

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_3 C F_3$$

$$I$$

$$O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_5 C F_3$$

$$| O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_7 C F_3$$

$$I$$

$$O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2)_n - C H - (C H_2)_m - (C F_2)_3 C F_3$$

$$| O_2 C - C H = C H_2$$
(n and m are respectively 1 to 3)

and

$$C H_2 = C H - C O_2 - (C H_2)_n - C H - (C H_2)_m - (C F_2)_3 C F_3$$

$$| O_2 C - C (C H_3) = C H_2$$
(n and m are respectively 1 to 3)

20. (new) The method as recited in claim 5, wherein the ultraviolet-curing fluorine-containing monomer represented by general formula (3) is at least one selected from the group consisting of:

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_3 C F_3$$

$$I$$

$$O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_5 C F_3$$

$$I$$

$$O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2) - C H - (C H_2) - (C F_2)_7 C F_3$$

$$I$$

$$O_2 C - C H = C H_2$$

$$C H_2 = C H - C O_2 - (C H_2)_n - C H - (C H_2)_m - (C F_2)_3 C F_3$$

$$| O_2 C - C H = C H_2$$
(n and m are respectively 1 to 3)

and

$$C H_2 = C H - C O_2 - (C H_2)_n - C H - (C H_2)_m - (C F_2)_3 C F_3$$

$$| O_2 C - C (C H_3) = C H_2$$
(n and m are respectively 1 to 3)